

AMENDMENTS TO THE CLAIMS:

Claims 1-12 and 14-20 are presented for examination. Claim 13 has been cancelled. Claims 1, 9, and 15-20 have been amended.

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently Amended): A method for manufacturing a polymerized toner comprising

a process for forming fine droplets of a polymerizable monomer composition containing a polymerizable monomer and a colorant, in an aqueous dispersion medium, and

a process for polymerizing the polymerizable monomer composition after the process for forming fine droplets; wherein, (1) the process for forming fine droplets comprising the steps of:

step (1) preparing an agitating apparatus having an agitator equipped with an agitating blade or rotor and a dispersion supply tank, said dispersion supply tank being connected with the agitator through a line;

step (2) providing a polymerizable monomer composition and an aqueous dispersion medium into the dispersion supply tank; then, and;

step (3) mixing the polymerizable monomer composition and the aqueous dispersion medium by the agitator <u>under controlled agitation</u> to obtain a dispersion of fine droplets; step (4) optionally; feeding back the dispersion from the outlet port of the agitator through a line into the dispersion supply tank and circulating the dispersion; the agitation being controlled by the following parameters:

 $R/\theta \ge 2$, and

 $R \ge 30$ m/s or more,

wherein the peripheral velocity (m/s) of the agitating blade or rotor of the agitator is designated by R, and the number of circulations is designated by θ ; θ being represented by (throughput of the dispersion (liter/h) x agitating time (h))/(provided quantity in step (2) of the polymerizable monomer composition and the aqueous dispersion medium (liter)); θ being ≥ 1 ; and the internal pressure of the agitator is controlled within a range between 0.01 and 15 MPa; and

step (5) providing the resulting dispersion to the process for polymerizing, and (2) R/0 is 2 or more, and R is 30 m/s or more, wherein the peripheral velocity (m/s) of the agitating blade or rotor of the agitator is designated by R, and the number of circulations, represented by {throughput of the dispersion (liter/h) x agitating time (h) }/{provided quantity of the polymerizable monomer composition and the aqueous dispersion medium (liter)}, is designated by 0.

Claim 2 (Original): The manufacturing method according to claim 1, wherein the polymerizable monomer composition and the aqueous dispersion medium are mixed together to form the blend thereof before providing them into the dispersion supply tank.

Claim 3 (Original): The manufacturing method according to claim 2, wherein the blend is formed as to include uniform primary droplets of the polymerizable monomer composition.

Claim 4 (Original): The manufacturing method according to claim 1, wherein the peripheral velocity R of the agitating blade or rotor is within the range between 30 and 100 m/s.

Claim 5 (Original): The manufacturing method according to claim 4, wherein the peripheral velocity R of the agitating blade or rotor exceeds 35 m/s.

Claim 6 (Original): The manufacturing method according to claim 4, wherein the peripheral velocity R of the agitating blade or rotor is 40 rn/s or more.

Claim 7 (Original): The manufacturing method according to claim 1, wherein the number of circulations θ is within the range between 1 and 20.

Claim 8 (Original): The manufacturing method according to claim 1, wherein R/θ is within the range between 2 and 100.

Claim 9 (Currently Amended): The manufacturing method according to claim 1, wherein

Reply to OA dated May 1, 2006

the agitator is a dispersing machine having a combination of a stator and a rotor that are concentric

comb-teeth rings,

rotating the rotor at a high speed to flow the blend[[,]] of the polymerizable monomer

composition and the aqueous dispersion medium[[,]] from the inside of the rotor to the outside of

the stator, and

agitating the blend through the gap between the rotor and the stator.

Claim 10 (Original): The manufacturing method according to claim 9, wherein the

combination of the stator and the rotor is placed in a housing and the rotor is driven with an agitating

shaft.

Claim 11 (Original): The manufacturing method according to claim 9, wherein the

dispersing machine has the plural combinations of rotors and stators disposed in one to three stages.

Claim 12 (Original): The manufacturing method according to claim 9, wherein the

dispersing machine is a vertical or horizontal dispersing machine with capacity of the peripheral

velocity R of the rotor higher than 35 m/s.

Claim 13 (Cancelled):

-5-

Reply to OA dated May 1, 2006

Claim 14 (Original): The manufacturing method according to claim 1, wherein the agitator

forms the fine droplets by the actions of shearing force, collision force, pressure fluctuation,

cavitations, and potential cores, generated between the rotor rotating at a high speed and a screen

surrounding the rotor.

Claim 15 (Currently Amended): The manufacturing method according to claim 1, wherein

the agitator forms the fine droplets by compressing the dispersion to the an internal wall of the

agitator with a centrifugal force[[,]] to form a liquid film[[,]] and to touch the liquid film with the

edges of the agitating blade or rotor rotating at an ultra-high speed.

Claim 16 (Currently Amended): The manufacturing method according to claim 1, wherein,

in the process of forming fine droplets, the fine droplets of the polymerizable monomer composition

has a volume average particle diameter of 3 to 10 µm, in the process for forming fine droplets.

Claim 17 (Currently Amended): The manufacturing method according to claim 1, wherein,

in the process of forming fine droplets, the fine droplets of the polymerizable monomer composition

has a particle diameter distribution of 1 to 2, in the process for forming fine droplets.

Claim 18 (Currently Amended): The manufacturing method according to claim 1, wherein,

-6-

U.S. Patent Application Serial No. 10/803,894 Amendment filed October 30, 2006 Reply to OA dated May 1, 2006

in the process of forming fine droplets, the fine droplets of the polymerizable monomer composition are formed in an aqueous dispersion medium containing a colloid of a hardly water-soluble metal hydroxide as a dispersion stabilizer, in the process for forming fine droplets.

Claim 19 (Currently Amended): The manufacturing method according to claim 1, wherein, in the process of polymerizing, the obtained colored polymer particles has having

a volume average particle diameter dv of 4 to 9 μm, the

<u>a</u> ratio dv/dp of the volume average particle diameter dv to the number average particle diameter dp, dv/dp, of 1.25 or less, and the

<u>a</u> number percentage of particles having a volume average particle diameter dv of 3 μm or smaller of 8% or less is obtained in the process for polymerizing.

Claim 20 (Currently Amended): The manufacturing method according to claim 1, wherein, in the process of polymerizing, core-shell structure colored polymer particles is obtained by, in the process for polymerizing, by

polymerizing the polymerizable monomer composition to form colored polymer particles, using the colored polymer particles as core particles, and

further polymerizing a polymerizable monomer for shell in the presence of the core particles to form polymer layer on the surface of the core particles.

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